

WHAT IS CLAIMED IS:

- 1                   1.       A method for identifying a compound that modulates angiogenesis,  
2   the method comprising the steps of:  
3                   (i) contacting the compound with a ILKAP polypeptide, the polypeptide  
4   encoded by a nucleic acid that hybridizes under stringent conditions to a nucleic acid  
5   encoding a polypeptide comprising an amino acid sequence of SEQ ID NO:2; and  
6                   (ii) determining the functional effect of the compound upon the ILKAP  
7   polypeptide.
- 1                   2.       The method of claim 1, wherein the functional effect is determined  
2   *in vitro*.
- 1                   3.       The method of claim 2, wherein the functional effect is a physical  
2   effect.
- 1                   4.       The method of claim 2, wherein the functional effect is determined  
2   by measuring ligand binding to the polypeptide.
- 1                   5.       The method of claim 2, wherein the functional effect is a chemical  
2   effect.
- 1                   6.       The method of claim 5, wherein the functional effect is determined  
2   by measuring phosphatase activity of the polypeptide.
- 1                   7.       The method of claim 1, wherein the polypeptide is expressed in a  
2   eukaryotic host cell.
- 1                   8.       The method of claim 7, wherein the functional effect is a physical  
2   effect.
- 1                   9.       The method of claim 8, wherein the functional effect is determined  
2   by measuring ligand binding to the polypeptide.
- 1                   10.      The method of claim 1, wherein the functional effect is a chemical  
2   or phenotypic effect.



1                    25.    The method of claim 20, wherein the compound inhibits  
2    angiogenesis.

1                    26.    A method of modulating angiogenesis in a subject, the method  
2    comprising the step of administering to the subject a therapeutically effective amount of a  
3    ILKAP polypeptide, the polypeptide encoded by a nucleic acid that hybridizes under  
4    stringent conditions to a nucleic acid encoding a polypeptide comprising an amino acid  
5    sequence of SEQ ID NO:2.

1                    27.    A method of modulating angiogenesis in a subject, the method  
2    comprising the step of administering to the subject a therapeutically effective amount of a  
3    nucleic acid encoding a ILKAP polypeptide, wherein the nucleic acid hybridizes under  
4    stringent conditions to a nucleic acid encoding a polypeptide comprising an amino acid  
5    sequence of SEQ ID NO:2.

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